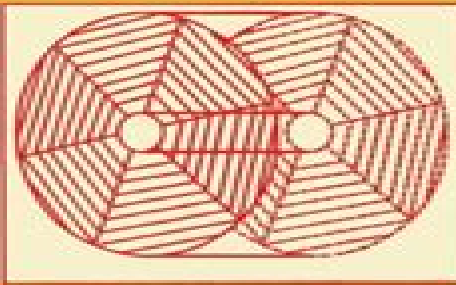


W. R. Leo

Techniques for Nuclear and Particle Physics Experiments

A How-to Approach

Second Revised Edition



Springer-Verlag

Techniques For Nuclear And Particle Physics Experiments

William R. Leo



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Techniques for Nuclear and Particle Physics Experiments William R. Leo, 1987 This book is an outgrowth of an advanced laboratory course in experimental nuclear of Geneva and particle physics the author gave to physics majors at the University 1978 1983 The course was offered to third

and fourth year students during the years the latter of which had at this point in their studies chosen to specialize in experimental nuclear or particle physics This implied that they would go on to do a diploma thesis with one of the high or intermediate energy research groups in the physics department The format of the course was such that the students were required to concentrate on only one experiment during the trimester rather than perform a series of experiments as is more typical of a traditional course of this type Their tasks thus included planning the experiment learning the relevant techniques setting up and troubleshooting the measuring apparatus calibration data taking and analysis as well as responsibility for maintaining their equipment i e tasks resembling those in a real experiment This more intensive involvement provided the students with a better understanding of the experimental problems encountered in a professional experiment and helped instill a certain independence and confidence which would prepare them for entry into a research group in the department Teaching assistants were present to help the students during the trimester and a series of weekly lectures was also given on various topics in experimental nuclear and particle physics

Techniques For Nuclear And Particle Physics Experiments: A How-To Approach, 2Nd Ed Leo,2009-11-01 Experimental Techniques in High-energy Nuclear and Particle Physics Thomas Ferbel,1991 Experimental Techniques in High Energy Nuclear and Particle Physics is a compilation of outstanding technical papers and reviews of the ingenious methods developed for experimentation in modern nuclear and particle physics This book a second edition provides a balanced view of the major tools and technical concepts currently in use and elucidates the basic principles that underly the detection devices Several of the articles in this volume have never been published or have appeared in relatively inaccessible journals Although the emphasis is on charged particle tracking and calorimetry general reviews of ionization detectors and Monte Carlo techniques are also included This book serves as a compact source of reference for graduate students and experimenters in the fields of nuclear and particle physics seeking information on some of the major ideas and techniques developed for modern experiments in these fields

Data Analysis Techniques for Physical Scientists Claude A. Pruneau,2017-10-05 A comprehensive guide to data analysis techniques for the physical sciences including probability statistics data reconstruction data correction and Monte Carlo methods This book provides a valuable resource for advanced undergraduate and graduate students as well as practitioners in the fields of experimental particle physics nuclear physics and astrophysics

PHYSICAL METHODS, INSTRUMENTS AND MEASUREMENTS - Volume I Yuri Mikhailovich Tsipenyuk,2009-04-15 Physical Methods Instruments and Measurements theme is a component of the Encyclopedia of Physical Sciences Engineering and Technology Resources which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty Encyclopedias The Theme provides a complete survey of the present status of our knowledge of modern physical instruments and measurements It is organized in the following main topics Measurements and Measurement Standards Sources of Particles and Radiation Detectors and Sensors Imaging and Characterizing Trace Element Analysis Technology of Physical Experiments Applications of Measurements and

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